ENGINEERING CHANGE NOTICE DART AEROSPACE LTD

M	P
lo 1	17

							1 11
Date	e: 11.11.14 Job No.:	RD23	41	ADR Yes/No: N	ADR Date:	<i>(-1</i>	- EEN#: 11- 670
	duct No.: D139-799-015			Created By: RF.	Approved By:		2011#. 11- 070
	duct Name: Engine Wash Kit			Checked By:			
1.00	add Name. Engine Wash Nit			7			
Diet	ribution Regd Resp Init	al / Date		Distribution	Regd	Resp	Initial / Date
_	duction Manager / Coord. Y LL/JLM			DQA / QA Coord.	N		
				QC Coordinator	N		
	chasing Coord. N			Customer Technical Sup		MB	
Proc	duction Engineering Coord. Y EC/DD					TOVE	
				Marketing	N		
				Customer Order Process	sing N	<u>ll</u> .	
	· · · · · · · · · · · · · · · · · · ·						
Rea	son for Change: Re-design D4121-3/-5						
l	_						
	uments Affected: 121 Rev. D						
	PARTS MUST COMPL Quality Assurance Actions	Regd	X	PREVIOUS PARTS S	lotes	RY L	Complete
_		+	vesh				
	Notify Previous Customers	N	<u> </u>				
2	Notify Eurocopter France	N	I				
3		1					
با		ــــــــــــــــــــــــــــــــــــــ	<u> </u>				
- 4	Engineering Actions	Regd	Resp		lotes		Complete
	Required Documents/Drawings Under Review	N	IXCSP	<u>-</u>			L_ 1
			RF	MDL-D139-799 Rev. E			11.11.14
	Update Master Document List (MDL)	Y	KF.	MDL-D139-799 Rev. E			FI 11.11.14
	Update Product Compatability Matrix	N	ļ				
	Create Eurocopter Form (FEE)	N					
8	Notify TC / FAA of Change	N					
9			İ				
9		<u> </u>	<u> </u>				
	Document Control Actions	Reqd	Resp		lotes		Complete
#	Document Control Actions Move Electronic Files/Design Journal			h	lotes		Complete
#	Move Electronic Files/Design Journal	Y	Resp		lotes		Complete
# 10 11	Move Electronic Files/Design Journal Update Product Specification Files	N N	KS		lotes		
# 10 11 12	Move Electronic Files/Design Journal Update Product Specification Files Update Approved/Preliminary Dwg PDF Files	N Y			lotes		Complete
# 10 11 12 13	Move Electronic Files/Design Journal Update Product Specification Files Update Approved/Preliminary Dwg PDF Files Update Document Record (DR)	N Y N	KS	, i	lotes		11.11.16
# 10 11 12 13	Move Electronic Files/Design Journal Update Product Specification Files Update Approved/Preliminary Dwg PDF Files Update Document Record (DR) Update Product Development Summary	N Y N N	KS	N	lotes		
# 10 11 12 13 14 15	Move Electronic Files/Design Journal Update Product Specification Files Update Approved/Preliminary Dwg PDF Files Update Document Record (DR) Update Product Development Summary Update QSI 021 and/or STC Approval List	X	KS	, n	lotes		11.11.16
# 10 11 12 13 14 15	Move Electronic Files/Design Journal Update Product Specification Files Update Approved/Preliminary Dwg PDF Files Update Document Record (DR) Update Product Development Summary Update QSI 021 and/or STC Approval List Update Parts / STC Database	X X Y N N N	KS	, n	lotes		11.11.16
# 10 11 12 13 14 15 16	Move Electronic Files/Design Journal Update Product Specification Files Update Approved/Preliminary Dwg PDF Files Update Document Record (DR) Update Product Development Summary Update QSI 021 and/or STC Approval List Update Parts / STC Database Update / Verify ARC Database	X Y Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	КЈ				11.11.16
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# 10 11 12 13 14 15 16 17 18 19 20	Move Electronic Files/Design Journal Update Product Specification Files Update Approved/Preliminary Dwg PDF Files Update Document Record (DR) Update Product Development Summary Update QSI 021 and/or STC Approval List Update Parts / STC Database Update / Verify ARC Database Create / Update Change Record Form / Item Card Database Create / Update PPP's Red Decals required?	X	КЛ				11.11.16
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# 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Move Electronic Files/Design Journal Update Product Specification Files Update Approved/Preliminary Dwg PDF Files Update Document Record (DR) Update Product Development Summary Update QSI 021 and/or STC Approval List Update Parts / STC Database Update / Verify ARC Database Create / Update Change Record Form / Item Card Database Create / Update PPP's Red Decals required? Update Document Control Database / Laminated Dwgs	N Y N N N N N N N N N N N N N N N N N N	KJ KJ				11.11.16
# 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Move Electronic Files/Design Journal Update Product Specification Files Update Approved/Preliminary Dwg PDF Files Update Document Record (DR) Update Product Development Summary Update QSI 021 and/or STC Approval List Update Parts / STC Database Update / Verify ARC Database Update / Verify ARC Database Create / Update Change Record Form / Item Card Database Create / Update PPP's Red Decals required? Update Document Control Database / Laminated Dwgs Update Grey Project / Electronic Binder PDF Files Update D-Part/M-Drawing/DSI/DEO Master Binders	N Y N N N N N N N N N N N N N N N N N N	KJ KJ	D139-799-015 @ CHG 00)4		11.11.16
# 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Move Electronic Files/Design Journal Update Product Specification Files Update Approved/Preliminary Dwg PDF Files Update Document Record (DR) Update Product Development Summary Update QSI 021 and/or STC Approval List Update Parts / STC Database Update / Verify ARC Database Create / Update Change Record Form / Item Card Database Create / Update PPP's Red Decals required? Update Document Control Database / Laminated Dwgs Update Grey Project / Electronic Binder PDF Files	N Y N N N N N N N N N N N N N N N N N N	KJ KJ	D139-799-015 @ CHG 00)4		11.11.16



STEEL AND SPECIALIZED METAL DISTRIBUTOR DISTRIBUTEUR D'ACIER ET DE MÉTAUX SPÉCIALISÉS

935, boul. du Havre, Valleyfield (Québec) J6S 5L1

Tél.: 450 377-4248 Ont.: 1-800-667-4248 Fax: 450 377-5696 Fax: 1-866-456-4242
D4121-3
B74263 X10 /64/
B72466 X 6
Jy rath
D4121-5-7444
872467 X G
B74265 X7
www.aciercampi.com sales@aciercampi.con

www.aciercampi.com

November-14-11 1:27:43 PM

Item ID	Warehouse ID	Lot Number	Last Trans Date	Lot Qty	Shelf Life	Dt	Type Code	Comments
Item Name	Location ID					Lot Code		
D4121-5 Hose Assembly	Main Warehouse ST192	72467	11/04/11	6.0000	•	QC21		
	Main Warehouse ST192	74265	11/04/11	10.0000		QC21		

Ubx -3 POISU29 Mirabel

November-14-11 1:27:46 PM

Criteria: Item	ID: d4121-3 All Loca	ations All Warehouses	s All Quantity				
Item ID Item Name	Warehouse ID Location ID	Lot Number	Last Trans Date	Lot Qty	Shelf Life Dt Lot Code	Type Code	Comments
D4121-3 Hose Assembly	Main Warehouse ST	72466	11/10/11	12.0000	QC21		
	Main Warehouse ST192	74263	11/04/11	10.0000	QC21		
			Total:	22.0000			

Linda Lacelle

From:

Don Taylor <dontaylor@aviall.com>

Sent:

November-14-11 12:08 PM

To:

Linda Lacelle

Cc:

dshepherd@dartaero.com; Laura McClelland

Subject:

RE: stupid hoses

Attachments:

D4121 Rev. D.pdf

Don Taylor Manager PRS II 972-586-1380 800-945-0686 Fax 972-586-1381 Cell 214-683-1524 OLD D4121-5 > D4121-1 do

"Aviall is not providing OEM parts. Aviall is an authorized Stratoflex distributor providing TSO assemblies. Numbers referenced per customer requirements are for customer reference only and are no way intended to be represented as OEM parts. Any reference to an OEM part number does not authorize or reflect installation authority for this part. The installation authority is provided by the mechanic installing this product in accordance with FAR Part 43".

From:

"Linda Lacelle" < llacelle@dartaero.com>

To: Co: "Don Taylor" <dontaylor@aviall.com>
"Laura McClelland" <lmcclelland@aviall.com>, <dshepherd@dartaero.com>

Date:

11/14/2011 11:02 AM

Subject:

RE: stupid hoses

Ok, so David & I just finished talking about these, and here is how we would like to proceed, if this is OK... Return the old D4121-3 hoses and convert them to D4121-1 hoses per drwg Rev D @ 57.00/pc **ok** Return the old D4121-5 hoses and convert them to D4121-3 hoses per drwg Rev.D @ ?? please advise **\$21.37 ea** And order up a new batch of D4121-5 hoses per drwg Rev.D

Please confirm that this is ok, and I will send over the PO for the new hoses, D4121-5's and ship back the stkt -3/-5's to you tomorrow.

And lastly, if you could please confirm the Stratoflex P/N;s now match our drwg..

Thx again for all your help on this mess....

Linda

From: Don Taylor [mailto:dontaylor@aviall.com]

Sent: November-14-11 9:58 AM

To: Linda Lacelle

Subject: RE: stupid hoses

Don Taylor Manager PRS II 972-586-1380 800-945-0686 Fax 972-586-1381 Cell 214-683-1524

[&]quot;Aviall is not providing OEM parts. Aviall is an authorized Stratoflex distributor providing TSO assemblies. Numbers

Linda Lacelle

From:

Don Taylor <dontaylor@aviall.com>

Sent:

November-14-11 9:58 AM

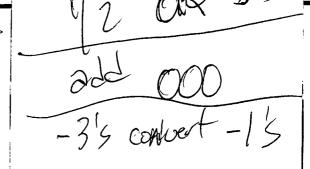
To:

Linda Lacelle

Subject:

RE: stupid hoses

Don Taylor Manager PRS II 972-586-1380 800-945-0686 Fax 972-586-1381 Cell 214-683-1524



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From

"Linda Lacelle" < llacelle@dartaero.com>

To:

"Don Taylor" <dontaylor@aviall.com>

Cc:

<dshepherd@dartaero.com>, "'Laura McClelland" <lmcclelland@aviall.com>

Date: Subject: 11/14/2011 08:52 AM

RE: stupid hoses

Ok, drwg will be corrected.

If you say the -5's will be out of tolerance, would it be more than 1/2"? we would be ok with it being 1/2" short. it would be over 1 in short

Also, can the -3's be converted to -1's, just so we don't scrap all of these? Yes would would need to add the 45 Let me know what the cost would be for reworking these. \$52.00 ea assy - thats the cost of the fitting +5.00 Thx

Linda

From: Don Taylor [mailto:dontaylor@aviall.com]

Sent: November-14-11 9:33 AM

To: Linda Lacelle

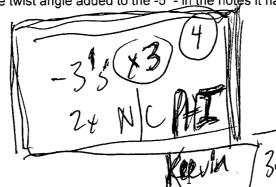
Cc: dshepherd@dartaero.com; 'Laura McClelland'

Subject: RE: stupid hoses

-51st = 135

yes they look ok just need the twist angle added to the -5 - in the notes it has 000

Don Taylor Manager PRS II 972-586-1380 800-945-0686 Fax 972-586-1381 Cell 214-683-1524



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From:

"Linda Lacelle" < llacelle@dartaero.com>
"Don Taylor" < dontaylor@aviall.com>

To: Cc:

<dshepherd@dartaero.com>, "Laura McClelland" <lmcclelland@aviall.com>

Date:

11/14/2011 08:08 AM

0.4.

RE: stupid hoses

Subject:

Ok, figured that...
We are not that familiar with the hose P/N's, so could you let us know if the Stratoflex P/N's we have indicated match the drwg of Rev.D, then we can issue you a new PO...

Thx Linda

From: Don Taylor [mailto:dontaylor@aviall.com]

Sent: November-14-11 9:05 AM

To: Linda Lacelle

Cc: dshepherd@dartaero.com; Laura McClelland

Subject: Re: stupid hoses

Linda

Sorry we can not re work the -3 because of the length

The -5 will be out of tolerance if we remove the straight and and the 45

The rev D drawing needs the twist angle on the part number 156062D1054D??? is the correct call out

Don Taylor Manager PRS II 972-586-1380 800-945-0686 Fax 972-586-1381 Cell 214-683-1524

"Aviall is not providing OEM parts. Aviall is an authorized Stratoflex distributor providing TSO assemblies. Numbers referenced per customer requirements are for customer reference only and are no way intended to be represented as OEM parts. Any reference to an OEM part number does not authorize or reflect installation authority for this part. The installation authority is provided by the mechanic installing this product in accordance with FAR Part 43".

From:

"Linda Lacelle" < llacelle@dartaero.com>

To:

"Laura McClelland" < Imcclelland@aviall.com >, "Don Taylor" < dontaylor@aviall.com >

Cc: Date: <dshepherd@dartaero.com>
11/14/2011 07:47 AM

Subject:

stupid hoses

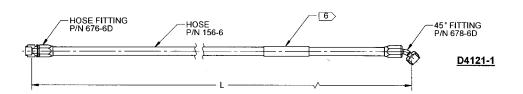
Good Morning all,

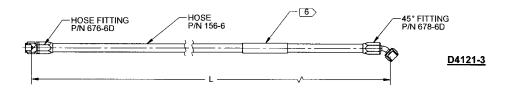
Hopefully this is the last time we ever have to discuss these hoses, beside ordering them...

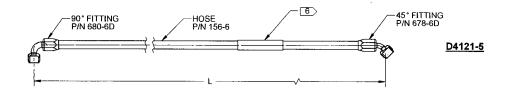
If we send back Rev. C's hoses, can they be changed out for Rev.D's drwg? I;m thinking the -3 hoses are scrap, because they are 2" longer now, but can anything be done for the -5's? Please let me know at your earliest convenience.

Thank You, Linda Lacelle Production Manager Dart Aerospace Ltd Hawkesbury, ON Phone: 613 632 9577

Fax: 613 632 1053 Cell: 613 676 1655







NOTES: 1) MATERIAL: N/A 2) FINISH: N/A

D

3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED

4) UNITS: INCHES UNLESS OTHERWISE NOTED

5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX

6) IDENTIFICATION: IDENTIFY WITH DART P/N & B/N USING D2729-1 LABEL INSTALLED WITH D2182-045 HEAT SHRINK

7) WEIGHT: N/A 8) STAINLESS STEEL COVERING TO HAVE MINIMUM THICKNESS OF 0.015"

	HOSE SPECIFICA	ATION	
DART P/N	STRATOFLEX P/N	VENDOR	L
D4121-1	156003-6D0274	API/ AVIAL	27.50
D4121-3	156003-6D0590	API/ AVIAL	59.00
D4121-5	156062D1054	API/ AVIAL	105.50

Lower Hoses

16 x con't chy

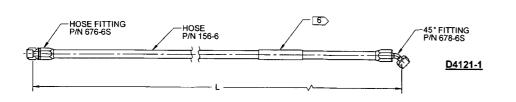
and Sithings - screp 7090

New ones

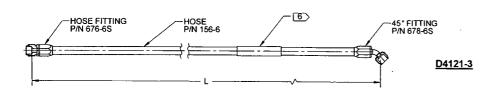
D	P/N 156003-6D0590 WAS 156003-6D0570, P/N 156062D1054 WAS 156062D1054D000 (ZN D2-1)	RF	11.11.10
С	ADD P/N 156062D1054D000 TO D4121-5	RF	11.07.27
В	P/N 676-6D WAS P/N 678-6S (ZN C4-1, B4-1); P/N 676-6D WAS 676-6S (ZN D8-1, C8-1); P/N 680-6D WAS P/N 680-6S (ZN B8-1); UPDATE STRATOFLEX P/N (ZN C2-1); UPDATE NOTE 8	RF	11.03.07
Α	NEW ISSUE	RF	10.09.16
REV.	DESCRIPTION	BY	DATE

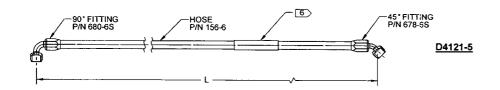
1420.		COOKII HON	ן יט	DAIL
DESIGN	RF	DART AEROSPACE	USA.	INC.
DRAWN	RF	KENT, WA		
CHECKED	4	DRAWING NO.		REV. D
MFG. APPR.	Ü	D4121		SHEET 1 OF 1
APPROVED		TITLE		SCALE
DE APPR.		HOSE ASSEMBLIES		NTS
DATE 11.1	1.10	COPYRIGHT © 2010 BY DART AERO: THIS DOCUMENT IS PRIVATE AND CONFEDENTIAL AND IS SUPPLIED ON NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATES	THE EXPRESS	CONDITION THAT IT IS

8



HOSE SPECIFICATION						
DART P/N	STRATOFLEX P/N	VENDOR	L			
D4121-1	156003-6S0274	API	27.50			
D4121-3	156003-6S0570	API	57.00			
D4121-5	156062D1054S0	API	105.50			





NOTES:
1) MATERIAL: N/A
2) FINISH: N/A
3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
4) UNITS: INCHES UNLESS OTHERWISE NOTED
5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
6) IDENTIFICATION: IDENTIFY WITH DART P/N & B/N USING D2729-1 LABEL INSTALLED WITH D2182-045 HEAT SHRINK
7) WEIGHT: N/A
8) HOSE ASSEMBLIES TO MEET THE REQUIREMENTS OF TSO-C53a TYPE "A"

Α	NEW ISS	SUE		RF	10.09.16	
REV.			DESCRIPTION	8Y	DATE	
DESIG	N	RF	DART AEROSPAC	USA	INC.	
DRAW	N	RF	PORT HADLOCK		, •	
CHECK	ŒD	140	DRAWING NO.		REV. A	
MFG. A	PPR.	91	[→] D4121		SHEET 1 OF 1	
APPRO	VED	140	TITLE		SCALE	
DE API	PR.	-#-	HOSE ASSEMBLIES		NTS	
DATE 10.09.16			COPYRIGHT © 2010 BY DART AEROSPACE USA, INC. THIS DOCUMENT IS PRIVATE AND COMPIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR CORNELINGATED TO ANY OTHER PERSON WITHOUT			

MOTEC



RETURN FOR REWORK - NEW C OF C REQ'D

Ship From: Dart Aerospace Ltd.

1270 Aberdeen Street Hawkesbury, ON K6A 1K7

Canada

Tel # 1.613.632.5200 GST # RT101272607 **Ship To: Aviall Hose Shop**

2755 Regent Blvd DWF Airport, TX 75261

US

Attn: Don Taylor Ph# 972 586 1380

Date:

12-Oct-11

P.O. #: Oct. 12,2011

Ship Via:

Fedex P1 PPD

FOB:ORIGIN

Item	Part Number / Product Description	Qty. TO SHIP	Qty. Shipped	Qty. Back Order
1	D4121-1 B72465	4	4	0
2	D4121-1 B74264	20	20	0
3	D4121-3 B72466	6	6	0
4	D4121-3 B74263	10	10	0
5	D4121-5 B72467	6	6	0
6	D4121-5 B74265	10	10	0

Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7 Canada

Tel.: 1.613.632.5200 Fax: 1.613.632.1185 GST # RT101272607 Work Order ID 74263 Page 1 Tuesday, September 27, 2011 1:09:16 PM Item ID: D4121-3 Accept Setup Start Revision ID: Stop Item Name: Hose Assembly **Start Date:** 9/27/2011 Start Qty: 10.00 **Cust Item ID:** Required Date: 10/6/2011 Req'd Qty: 10.00 **Customer:** Reference: Start Run Approvals: Date: Tooling: Stop Date: _____ SPC (Y/N): Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Accept Reject Reject Insp. Work Center ID Description **Run Hours** Code Qty Number Stamp Qty Draw Nbr **Revision Nbr** D4121 0.00 PURCHASING Purchasing 0.00 Memo Purchasing Create D2729-1 label and include with W/O Material release note is required

110

Packaging

Packaging

Memo

Receive & Inspect for Damage & Mat'l Certs

0.00

Ensure Material Release Note is attached

W11.1013

Work Order ID 74263 Tuesday, September 27, 2011 1:09:16 PM Item ID: D4121-3 **Revision ID:** Item Name: Hose Assembly Start Oty: 10.00 Start Date: 9/27/2011 Req'd Qty: 10.00 Required Date: 10/6/2011 Reference: Sequence ID/ Operation Work Center ID Description

Accept



Setup Start

Cust Item ID: Customer:

Process Plan:

Date: Tooling:

Date:

_____ Date:

Start Run

Date:

Stop

120

QC

Quality Control

QC6- Inspect dimensions to drawing

Memo

Set Up/ **Run Hours**

0.00

SPC (Y/N):

0.00

Tool ID

Tool # Plan Code

Accept QtyA

Reject Reject Otv

Insp. Number Stamp

130

Small Fab

Small Fab

Small Fab

Memo

0.00

0.00

Install D2729-1 as per Dwg D4121 using D2182-045 Heat Shrink

140

Quality Control

QC5- Inspect part completeness to step on W/O

Memo

0.00

0.00

Work Order ID 74263

Page 3

Tuesday, September 27, 2011 1:09:16 PM

Item ID: Revision ID: D4121-3

Accept

Setup Start

Stop



Start Date:

Item Name: Hose Assembly

Required Date: 10/6/2011

9/27/2011

Start Qty: 10.00

Req'd Oty: 10.00

Operation

Description



Cust Item 1D:

Customer:

Reference:

Process Plan: Approvals:

Date:

Tooling:

Date:

Start

Run



Date:

SPC (Y/N):

Date:

Stop

Sequence ID/

Work Center ID

150

Packaging

Packaging

Memo

Memo

Identify as per dwg & Stock Location:

Set Up/ **Run Hours**

0.00

0.00

Tool ID

Tool # Plan Code

Accept Qty

Reject

Reject Insp. Number Stamp

QC21- Final Inspection - Work Order Release



QC

160

Quality Control

0.00

0.00

Picklist Print

Tuesday, September 27, 2011 1:09:14 PM

Work Order ID: 74263

Parent Item: D4121-3

Parent Item Name: Hose Assembly

Start Date: 9/27/2011

Required Date: 10/6/2011

Start Qty: 10.00

Required Qty: 10.00

Comments:

IPP REV:A NEW ISSUE 10-10-05 JLM VERIFIED BY:DD

1PP

REV:B AS PER ECN 11-598 11-06-05 JLM VERIFIED BY:DD

	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
156003-6D0570		Purchased	No			110	Each	0.0000	1 	10		0	

- 1 120,20 1127, 10116 31111 10111 1011 10 1111 1122 1111 1122 1124 3518; 2124 3518; 2124 3511 1221

Hose Assembly

L	/is	t	L	ots

November-03-11 10:43:16 AM

Page 1 of 1

ltem ID	Warehouse ID	Lot Number	Last Trans Date	Lot Qty	Shelf Life Dt	Type Code	Comments	
Item Name	Location ID	· · · · · · · · · · · · · · · · · · ·			Lot Code			
04121-3	Main Warehouse	72466	10/03/11	6.0000	QC21			
lose Assembly	ST							

Tuesday, Septen	nber 27, 2011	1:10:05 PM			1 31 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 						rage i
Item ID: Revision ID:	D4121-5			Accept				iii s	Setup Star Stop	4 (88)(18)	
Item Name: Start Date: Required Date: Reference:	Hose Assembly 9/27/2011: 10/6/2011	Start Qty: 10.00 Req'd Qty: 10.00		11881	Cust Item I Customer:	D:) 	
Approvals:	Process Pla	n:	Date:	Tooling: SPC (Y/N):		ate:		F	Run Star Stop	1 (881)381	
Sequence ID/ Work Center I	D	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Rev	ision Nbr									
D4121	C										
100 Purchasing		PURCHASING Memo		0.00				Alle de la constante de la con	-1/1	1-09-	27
Purchasing 110 Packaging Packaging	Pul	Issue P/O: Hose Asser Possible St Material re Receive & Inspect for E	mbly as per Dwg D4/21 upplier: API lease note is required A MUZI-5 Damage & Mat'l Certs sterial Release Note is atta	B 72467 - ship 0.00 to A	14265+724 Juiell for come rdrive	de 7 ect early	gurzti	. U	11.10	3/4/2	(16)

Work Orde Tuesday, Septem													Page 2	
Revision ID:	D4121-5 Hose Assemb	lv		A	ccept					Setup	Start Stop			=
	9/27/2011	Start Qty: 10.00 Req'd Qty: 10.00	·			Cust Item 11 Customer:	D:					! (85) # 5 75 		
Approvals:		an:			Tooling: SPC (Y/N):		ite:			Run	Start Stop			
Sequence ID/ Work Center ID 120 QC Quality Control)	Operation Description QC6- Inspect dimensions Memo	to drawing	······································	Set Up/ Run Hours 0.00	Tool ID	Tool #	Plan Code	Acce	ot Rej Qty		Reject	Insp. Stamp	1
130 Small Fab		Small Fab	·		0.00				5	30	<u> </u>	63	(10	?

140

Small Fab

Quality Control

QC5- Inspect part completeness to step on W/O

Install D2729-1 as per Dwg D4121

Memo

Memo

0.00

0.00

0.00

Work Order ID 74265



Page 3

Tuesday, September 27, 2011 1:10:05 PM

Item	ID:
------	-----

D4121-5

Accept

Setup Start



Revision ID:

Item Name:

Hose Assembly

Start Date:

9/27/2011

Start Qty: 10.00

Required Date: 10/6/2011

Req'd Qty: 10.00



Cust Item ID: Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start

Stop

Date:

SPC (Y/N):

Set Up/

Date:

Sequence ID/ Work Center 1D

150

Operation Description

Identify as per dwg & Stock Location:

Run Hours

0.00

Tool ID

Tool# Plan Code

Accept Qty

Reject Qty

Reject Insp. Number Stamp

Packaging Packaging

Memo

0.00

160

Quality Control

QC21- Final Inspection - Work Order Release

0.00

Memo

0.00

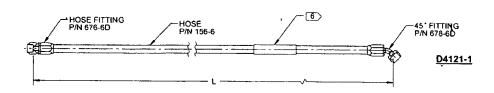
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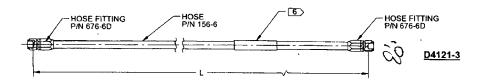
November-03-11 10:43:23 AM

Page 1 of 1

Item ID Item Name	Warehouse ID Location ID	Lot Number	Last Trans Date	Lot Qty	Shelf Life Dt Lot Code	Type Code	Comments
04121-5 Hose Assembly	Main Warehouse ST192	72467	10/03/11	6.0000	QC21		

HOSE SPECIFICATION DART P/N STRATOFLEX PIN VENDOR D4121-1 156003-6D0274 API/ AVIAL 27.50 D4121-3 156003-6D0570 API/ AVIAL 57.00 D4121-5 156062D1054D000 API/ AVIAL 105.50





HOSE FITTING P/N 676-6D -90 * FITTING P/N 680-6D -HOSE P/N 156-6

719-015

W/074265

c			D000 TO D4121-5	RF	11.07.27				
В	P/N 676- WAS 67- (ZN B8-1 NOTE 8	6D WAS P/N 6 6-6S (ZN D8-1. I); UPDATE ST	78-6S (ZN C4-1, B4-1); P/N 676-6D C8-1); P/N 680-6D WAS P/N 680-6S RATOFLEX P/N (ZN C2-1); UPDATE	SS (ZN C4-1, 84-1); P/N 676-6D -1); P/N 680-6D WAS P/N 680-6S FOFLEX P/N (ZN C2-1); UPDATE					
A	NEW IS:	SUE		RF	10.09.16				
REV.			DESCRIPTION	BY	DATE				
DESIG	Ν	RF	DART AEROSPAC	E USA	.INC.				
DRAWN RF			KENT, WA		,				
CHECKED 10		10	DRAWING NO.		REV. C				
MFG. APPR.		12	↑D4121		SHEET 1 OF 1				
APPROVED 149			LULE						
DE APPR.			HOSE ASSEMBLIES NTS						
DATE	DATE 11.07.27 https://doi.org/10.1001/								

Α

D

NOTES:
1) MATERIAL: N/A
2) FINISH: N/A
2) FINISH: N/A
3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
4) UNITS: INCHES UNLESS OTHERWISE NOTED
5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
6) IDENTIFICATION: IDENTIFY WITH DART P/N & B/N USING D2729-1 LABEL INSTALLED WITH D2182-045 HEAT SHRINK
7) WEIGHT: N/A
8) STAINLESS STEEL COVERING TO HAVE MINIMUM THICKNESS OF 0.015"

5

D

Linda Lacelle

From:

David Shepherd <dshepherd@dartaero.com>

Sent:

November-01-11 6:34 PM Vaughn, Chuck; Wyatt, John

To:

'Linda Lacelle'

Cc: Subject:

FW: Dart Engine Wash

Importance:

High

Chuck/John,

Have you ever run into this problem with the RH D4121-3 engine wash hose ...

My understanding is that you've successfully installed at least 2-3 engine wash kits with the existing hose? Would it make sense to make this hose 2"

156001 600590

longer in future kits?

Linda,

Please put wheels in motion for a D4121-3 that is 2" longer than dwg currently shows.

Thanks,

David

----Original Message----

From: Comeaux, Keevin [mailto:kecomeaux@phihelico.com]

Sent: November-01-11 12:25 PM

To: David Shepherd (dshepherd@darths.com); David Shepherd

(dshepherd@dartaero.com)

Cc: Symes, Greg

Subject: Dart Engine Wash

Importance: High

David:

We are installing the engine wash hose today. Hose P/N D4121-3 for the R/H engine is two inches short no matter how we route it is short. We made a hose two inches longer in our hose and line shop and it works great. Can you please make use one two inches longer ASAP.

Best Regards,

Keevin Comeaux Heavy Ship Hangar Manager PHI, Inc. 2001 S.E. Evangeline Thruway Lafayette, La. 70509

Phone: 337-272-4301 Fax: 337-235-3855

=

DART Helicopter Services

4650 North Avenue Oceanside, CA 92056

USA

Ph: 1-613-632-3336, Fax: 1-613-632-4443

sales@darths.com

Purchase Order

Order #: 11193

Prepared By: Nancy MacLeod

Date Printed: 10/31/2011

Time: 10:57:43 AM

of Items: 4 Page: 1

Purchased From: DART AEROSPACE LTD 1270 ABERDEEN STREET HAWKESBURY, ON K6A 1K7 **CANADA**

Ship To:

PETROLEUM HELICOPTERS INC PHI (CPETR01)

2001 SE EVANGELINE THRUWAY **LAFAYETTE, LA 70508-2149 USA**

ATT: TONY GONZALEZ Tax ID#: 72-0395707 Tel #: 1 337 272 4384

PO Date: 7/20/2011

Cust Ref#: PAOG-005117-2011

Vendor #: CDART02

Customer: PETROLEUM HELICOPTERS INC

Need Date: 8/3/2011

Terms: NET 30

Phone #:

Fax #:

Remarks: GOOD TO GO NM 20JUL11

Resale: YES

Resale #:

Insure?:

Authorized Signature:

Ship Via: FedEx Int'l Priority

Account: 1237 9798 1

DHSCARRIE

All items subject to our inspection and acceptance **Total Amt** Part Number/Description Delivery To Ship **List Price** Disc% **Unit Price** item D139-799-015 AW139 Engine 8/3/2011 \$3,595.50 23.00% \$2,768.54 EA \$2,768.54 Wash Kit Dyl310415 in SO#: 9389 SHIP ASAP D139-799-013 Cargo Door Fwd \$2,397.78 8/3/2011 2.00 FN \$1,557.00 23.00% \$1,198.89 EA Opening Kit SO#: 9389 SHIP ASAP D139-799-013 Cargo Door Fwd \$21.580.02 11/8/2011 18.00 FΝ \$1,557.00 23.00% \$1,198.89 EA Opening SO#: 9389 QTY 6 TO SHIP NOV 8, 2011 QTY 6 TO SHIP JAN, 15 2012 QTY 6 TO SHIP OCT 15, 2012 D139-799-015 AW139 Engine \$24,916.86 11/8/2011 9.00 FΝ \$3,595.50 23.00% \$2,768.54 EA Wash Kit-SO#: 9389 QTY 3 TO SHIP NOV 8, 2011 QTY 3 TO SHIP JAN, 15 2012 QTY 3 TO SHIP OCT 15, 2012 Please include customer purchase order number on all documents, invoices and packages 26/OCT/11 SH PHI emailed that it was OK to send off the balance of the order

Pricing listed above is as per contract agreement between DART Helicopter Services,	and the
respective manufacturer.	

item Total:	\$51,663.20
Charges:	\$0.00
Total:	\$51,663.20

US Dollars

Form created with Quantum Control(tm) technology. Product Licensed to: DART Helicopter Services

MELSTOPTER SERVICES

DART Helicopter Services

4650 North Avenue Oceanside, CA 92056

USA

Ph: 1-613-632-3336, Fax: 1-613-632-4443

sales@darths.com

Purchase Order

Order #: 11193

Prepared By: Nancy MacLeod

See last page for totals

Date Printed: 10/31/2011 **Time:** 10:57:44 AM

of Items: 4 Page: 2

Purchased From: DART AEROSPACE LTD 1270 ABERDEEN STREET HAWKESBURY, ON K6A 1K7 CANADA

Authorized Signature:

Ship To:

PETROLEUM HELICOPTERS INC PHI (CPETR01) 2001 SE EVANGELINE THRUWAY

LAFAYETTE, LA 70508-2149 USA ATT: TONY GONZALEZ

Tax ID#: 72-0395707 Tel #: 1 337 272 4384

Pricing listed above is as per contract agreement between DART Helicopter Services, and the	Ne	PO Date: 7/20/2011		Phor	or #:CD ne #: sale:YE		Customer: PETROLEUM HELICOPTERS INC Fax #: Resale #:			
Part Number/Description Pelivery To Ship CD List Price Disc% Unit Price Total Amt 9/20/2011 - NM - UPDATED SHIP DATE TO 10/14/2011 PER LL 8/29/2011 - NM - UPDATED SHIP DATE TO 9/30/2011 PER LL 7/21/2011 - NM - HONORING ORIGINAL DELIVERY DATES FOR REMAINING KITS TBA ONCE THE FIRST KITS ARE INSTALLED.	ln	sure?: Ship Via	FedEx Int'l Priority		Acco	unt: 1237 979	8 1	DHSCARRIE		
9/20/2011 - NM - UPDATED SHIP DATE TO 10/14/2011 PER LL 8/29/2011 - NM - UPDATED SHIP DATE TO 9/30/2011 PER LL 7/21/2011 - NM - HONORING ORIGINAL PRICING DELIVERY DATES FOR REMAINING RITS TBA ONCE THE FIRST KITS ARE INSTALLED.		Al	l items subject i	o our insp	ection	and accept	ance			
10/14/2011 PER LL 8/29/2011 - NM - UPDATED SHIP DATE TO 9/30/2011 PER LL 7/21/2011 - NM - HONORING ORIGINAL PRICING DELIVERY DATES FOR REMAINING KITS TBA ONCE THE FIRST KITS ARE INSTALLED. Pricing listed above is as per contract agreement between DART Helicopter Services, and the	ltem	Part Number/Description	Delivery	To Ship	CD	List Price	Disc%	Unit Price	Total Amt	
Pricing listed above is as per contract agreement between DART Helicopter Services, and the		10/14/2011 PER LL 8/29/2011 - NM - UPDATED SHIP DA PER LL 7/21/2011 - NM - HONORING ORIGIN DELIVERY DATES FOR REMAINING	TE TO 9/30/2011 NAL PRICING KITS TBA							
espective manufacturer.			nt between DART F	lelicopter Ser	vices, ar	nd the	ltem '	Total:	\$51,663.20	

Cc: Carrie Pearson; Larsen Jr., Joseph

Subject: RE: Status Update of 2 Dart Orders

Shirley,

Please ship the remaining order. It will be a few weeks before we are able to install the units we have. We must close out this transaction before the end of the year.

Patrick J Robert

Maintenance Superintendent, Aircraft Operations
Chevron North America Exploration & Production Company
96 Runway Road
Picayune, Mississippi 39466

Tel: 601-749-4041 Fax: 601-749-4034

From: Shirley Hay [mailto:SHay@darths.com] **Sent:** Thursday, October 27, 2011 3:24 PM

To: Larsen Jr., Joseph

Cc: Carrie Pearson; Robert, Patrick (RPAJ) **Subject:** RE: Status Update of 2 Dart Orders

Hello Joey

I believe we are waiting to make sure that the initial install went well....can you let us know and then we will release the rest. Let us know....

Regards Shirley Kay

From: Larsen Jr., Joseph [mailto:JLJR@chevron.com]

Sent: Thursday, October 27, 2011 2:24 PM

To: Shirley Hay

Cc: Robert, Patrick (RPAJ)

Subject: Status Update of 2 Dart Orders

Shirley,

Please advise delivery status on the following material:

- M0026273, 14 each, D139-799-013, Cargo Door FWD Kit. Original order for 16, received 2.
- M0026274, 7 each, D139-799-015, Engine Wash Kit. Original order for 8 ea, received 1.

We need these things onsite by the end of November.

Thanks so much for your help,

Joseph R Larsen Jr (Joey)

Aviation Parts & Purchasing Supervisor Chevron Gulf of Mexico BU, CNAEP

Linda Lacelle

From:

Carrie Pearson < CPearson@darths.com>

Sent:

October-31-11 1:32 PM

To:

'David Shepherd'

Cc:

Peggy McDonald; 'Linda Lacelle'; Shirley Hay

Subject:

AW139 CHEVRON KITS

Attachments:

Carrie Pearson.vcf

Hi David

Chevron would like the remainder of their Purchase Order shipped . See email below.

Linda

Please advise ship dates for the remainder?

Thank you

DART

Carrie Pearson Sales Associate

(613) 632-3336 Work (613) 632-4443 Fax cpearson@darths.com www.darthelicopterservices.com

Connect with DART @:



From: Shirley Hay

Sent: October 31, 2011 11:04 AM

To: Carrie Pearson

Subject: FW: Status Update of 2 Dart Orders

Hello Carrie

This is the email from Chevron...

Regards Shirley Kay

From: Robert, Patrick (RPAJ) [mailto:RPAJ@chevron.com]

Sent: Thursday, October 27, 2011 4:27 PM

To: Shirley Hay